VISHNEVSKIY, V.M., kand.istor.nauk; GAYDASHENKO, K.P.; DUDOROV, V.M.;

KLEYNAN, T.Ye.; KHUSHANOV, A.I., kand.istor.nauk; KUCHERTAVRNKO,

V.T.; LEVITSKIY, V.L.; OKSYUZ'YAN, D.V.; POLYAKOV, V.V.;

SAMOKHVALOV, V.A.; SVIN'IN, V.V.; STEPAHOVA, L.F.; SUSHKOV, B.A.;

FISHER, Ye.L.; RELYKH, D.P., otv.red.; AVZRKIN, B.Z., red.;

ZUSMAN, Ye.I., red.; MAYOROV, V.M.; red.; KIREYEVA, T.R.,

vedushohiy red.; BUTOVA, L.A., tekhn.red.

Vladivostok, 1860-1960. Vladivostok, Primorskoe knizhnoe izd-vo, 1960. 271 p. (MIRA 13:11) (Vladivostok)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723030001-5"

SHURYGIN, V.P., kand.tekhm.nauk; IVANTSOV, M.C., insh.; KLEDGAN,
V.M., insh.; MATSKEV, M.P., insh.; PIETISHALI, F.V., insh.;
HUKHRANOV, M.A., insh.; MIKCLAYEV, N.P., insh.; AKOSIKIN,
A.I., insh.; PILIPERKO, M.P., mekhanizator SMF-205, SAVIN,
V.D., mokhanization of construction in railroad electrification by A.P. Alekseev. Reviewed by V.P. Shurygin and
others. Transp. stroi. 11 no.8:59-60 Ag '61. (MIRA 14:9)
(Railroads-Electrification)
(Alekseev, A.P.)

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723030001-5

Schematic for connecting two lines with one circuit breaker. Energetik.
13 no.7124-27 J1 165. (MIRA 1818)

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ROW/JO

ACCESSION NRT AP5009909

UR/0032/65/031/004/0410/0412

AUTHORS: Enyaseva, R. N.; Kleyman, V. Ia.

TITLE: The separation and determination of selenium and tellurium by sintering with Eshka mixture

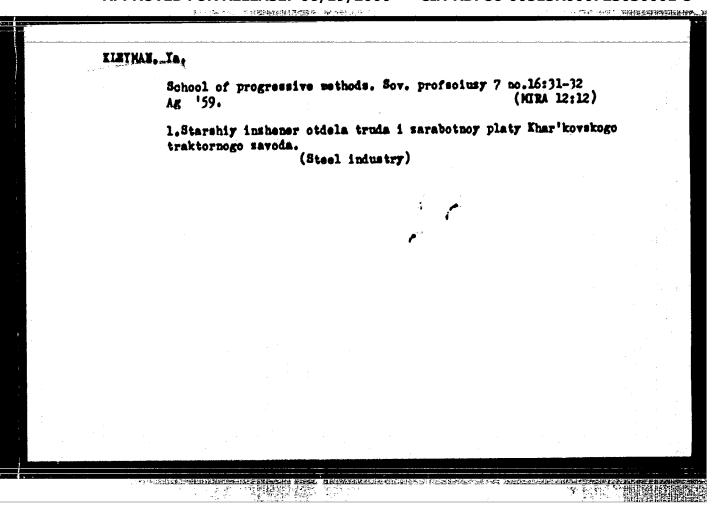
SOURCE: Zavodskaya laboratoriya, v. 31, no. 4, 1965, 410-412

TOPIC TAGS: selenium, tellurium, sintering

ABSTRACT: A method is suggested that will permit decomposition of a sample with simultaneous severation of Te and Se, considerably shortening the time of enalymic. When sintering Se and Te for 40 minutes with leave minimae (1 part, by weight, of Na₂CO₃ and 2 parts NgO) at 8000, magnesium relembe and magnesium orthotallurate are formed, the first readily soluble in water, the second relatively insoluble. After washing the residue with hot water, the Se gods into solution, where it may be determined by any desired method. Sood results have been stained with the thicaulTate method (in which the Ng selenate is reduced to select by heating in HCI). Experiments have shown that so make of Se is observed, even when the HCI solution is boiled. The Te came as in the undistance of the sediment, and in the all its accompanying elements. To issolve this sediment,

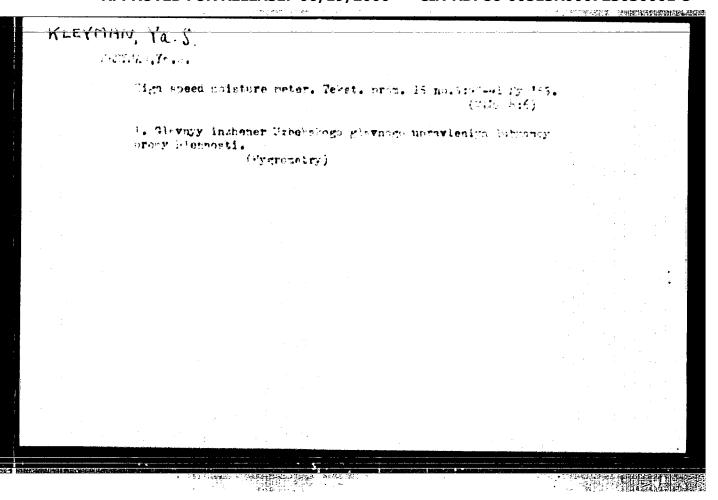
"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723030001-5

ACCESSION NR: AP5009909 a number of acids were tried: sulfurio, hydrochloric, nitric, and phosphoric. The last gave best results, since many metallic phosphates are difficultly solwho reas Mg orthotellurate is readily discolved in phosphoric acid. HC1 the phosphoric acid solution; To is productioned by SmCl, and determined by the iodometric method. When the content of Se and To in the same 'e is small, the colorimetric method may be used after sintering and solution to whiter. Fe, Cu, Pb, Ag, Ba, Ca, Cr, Al, Si, C, or As, when present, do not with results obtained by this method. Malys's by using Eahka mixture requires 23-3 hours, which is but 1/4-1/3 the time required by other methods, yet giving equivalent accuracy. Orig. art. has: 2 tables. ASSOCIATION: Ural'skiy gosudarstvennyy universitet im. A. M. Gor'kogo (Ural State University) SUB CODE: М EKCL: 00 SUBMITTED: 00 OTHER: NO REF SOV: 003 Card 2/2



MELETHAN, Ya.M. (Vinnitea) Shortcoming. Mat. v shkole no.5:43-44 8-0 158. (Geometry, Solid) (MIRA 11:10)

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723030001-5



是是不是一个。 1000年,10

KLEYMAE, Ya.S.; ALESHIE, M.V.

Let us extend the use of short jute and hemp fibers. Tekst.prom. 15 no.12:50-51 D '55. (MLRA 9:3)

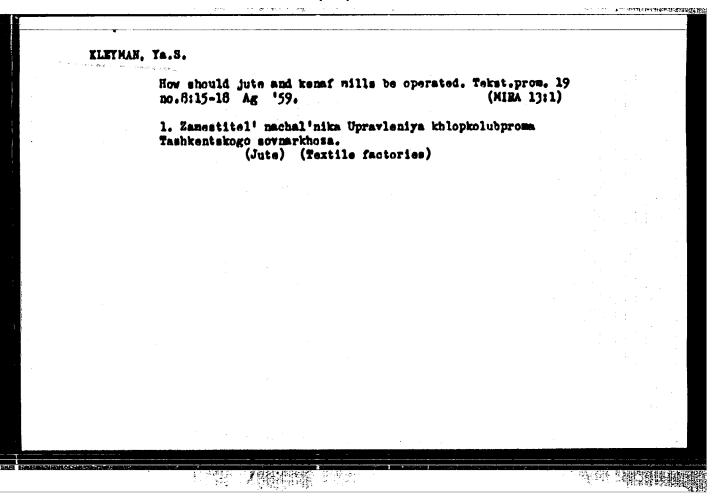
1. Olavnyy inshener "Usglavluba" (for Kleyman); 2. Glavnyy inshener Tashkentskoy kenafnoy fabriki (for Aleshin).
(Jute) (Hemp)

ことは「おけてもなけれるとはない。」

ARBO, A.A., starshiy mauchnyy sotrudnik; OSTRETSOV, H.I., starshiy mauchnyy sotrudnik; KLETMAN, Ya.S.

Redesign of the feed unit on a TRO-200-K machine. Tekst. prom. 17 no.7:53-54 Jl '57. (NIEA 10:9)

1. Olavnyy inshener Usglavluba (for Kleyman). (Retting) (Textile machinery)



Effect of the time of denaf harvesting (for the manufacture of scutched green bast) on the physical and mechanical properties of the fiber. Shor.nauch.-issl.rab.TTI no.12:105-114 [61. (MIRA 15:11)]

(Ambary hemp-Testing)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723030001-5"

KIEYMAN, Ya. 7.:

**Moster Phys-Math Soi (diss) -- "On the movement of a milticomponent medium". Mosecw, 1958. 12 pp (Inst of Mechanics Acad Sci IESR),
150 copies (KL, No 4, 1959, 121)

10(4) 10,2000

AUTHOR:

Kleyman, Ya.Z.

807/155-58-4-16/34

TITLE:

On Stationary Motions of Mixtures in Tubes (Ob ustanoviv-

shemeya dvishenii smesey v trubakh)

PERIODICAL:

Nauchnyje doklady vysshey shkoly. Piziko-matematicheskiye

nauki, 1958, Mr 4, pp 93 - 102 (USSR)

ABSTRACT:

The author considers the flow of a mixture consisting of two components in an inclined tube of variable cross section. The individual behavior of the single components is taken into account, e.g. the fact that under contractions of the tube the variation of velocity of the two components may be different. Furthermore the influence is considered which the particles of a component effect on each other (impulse transmission from one particle to another of the same component). Incompressible mixtures in cylindrical tubes are investigated in detail; also mixtures, the components of which have equal initial velocities, and motions in horizontal cylindric tubes.

Card 1/2

307-45-4-3-5/18

AUTIOR: Kleyman, Ya. Z.

TITLE: On the Propagation of Weak Discontinuities in a Multi-Component Medium (O rasprostranonii voln slabogo razryva v :anogokomponentnoy srede)

PERIODICAL: Akusticheskiy Zhurnal, 1958, Vol 4, Nr 3, pp 253-262 (USSR)

ABSTRACT: Some regularities in the propagation of weak discontinuities in a multi-component mixture are established. An equation which describes the propagation of the waves is derived and investigated. In particular, it is established that, in the case of different speeds of motion of the components in an N-component medium, under certain conditions the propagation of waves with different velocities may take place and their number may lie between 2 and 2N. The dependence of the velocities of propagation of the waves upon the quantitative composition of a two-component mixture is discussed. In the case where the velocities of the components are not very different (which is the most interesting case in practice) an approximate formula is derived which may be used to determine the velocity of propagation of

SOV-46-4-3-6/18

On the Propagation of Weak Discontinuities in a Multi-Component Medium

weak discontinuities. The method employed in the discussion of the motion of a multi-component medium is that due to Rakhmatulin (Ref.1). It is assumed that for each of the components the remaining components appear as a porous medium in which the pressure at a given point may be taken as common to all the components. The paper is highly mathematical and includes 2 figures and 2 Soviet references.

ASSOCIATION: Institut mekhaniki, AN SSSR, Moskva (The Institute of Machanics of the Academy of Sciences of the USSR, Moscow)
SUBMITTED: July 17, 1957.

1. Sound--Propagation 2. Sound--Velocity 3. Mathematics--Applications

Card 2/2

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723030001-5

. AUTHOR:

Kleyman, Ya.Z.

SOV/46-4-4-13/20

TITLE :

On Attenuation of Harmonic Waves in Mixture: (K voprosu o zatukhanii garmonicheskikh voln v smesyakh)

PERIODICAL: Akusticheskiy Zhurnal, 1958, Vol 4, Nr 4, pp 365-367 (USSR)

ABSTRACT:

Propagation of waves in mixtures is affected not only by the viscosity of the components but also by the friction between them. This is because, at a given point, particles of different components possess in general, different velocities. In his study of the effect of the relative motion of components in mixtures, the author discusses attenuation of plane harmonia waves in a two-emponent disperse medium. The attenuation is taken to be due only to friction caused by the difference in velocities of particles of the two components: viscosities of both components are neglected. Both components are regarded as continuous miscible media. The author assumes that pressure at each point is the

Card 1/2

On Attenuation of Hamsonie Mares in Mixture:

507/45-4-4-13/20

make for both components. A system of equations describing the motion of such mixtures was given in Ref 3. The interaction between the components was taken to be due to variations in the cross-section of the flux tubes of the components and due to forces which depend on the relative velocities of the two types of particles. The paper is entirely theoretical. There are 4 Soviet references.

ASSOCIATION: Institut mekhaniki AN SSSR, Moskva (Institute of Meshanics, Academy of Sciences of the U.S.S.R., Moscow)

SUBMITTED: May 16, 19:8

Card 2/2

AUTHOR:

Kleyman, Ta.Z. (Moscow)

40-22-2-7/21

TITLE:

On the Propagation of Strong Discontinuities in a Medium Consisting of Saveral Components (O rasprostranenii sil'nykh razryvov v mnogokomponentnoy srede)

PERIODICAL: Prikladnaya matematika i mekhanika, 1958, Vol 22, Nr 2, pp 197-205 (USSR)

ABSTRACT:

The author investigates the motion of a medium consisting of several components which may penetrate each other during the motion. Investigations of such kind were carried out for the first time by Rachmatulin. According to this proposed method the motion of every single component is calculated analogously to the motion of a homogeneous medium. There it proves necessary to introduce, besides of the notion of the real density of the n-th component \S^0_n , still the notion

$$g_n = \frac{M_n}{W}$$

which represents another kind of density of the n-th component. M is the mass of the n-th component in a volume W of the medium.

Card 1/2

On the Propagation of Strong Discontinuities in a Medium 40-22-2-7/21 Consisting of Several Components

The investigations are restricted to such media in which the pressure in every point can be assumed to be equally high for all occurring components of the medium. The relations generally derived at first for strong discontinuities can still be simplified for the case of shock waves of small intensity. They are discussed in the paper without application to special

There is 1 figure, and 1 Soviet reference.

SUBMITTED: July 9, 1957

1. Materials-Analysis 2. Shock waves--Mathematical analysis

Card 2/2

301/179-59-1-7/36

AUTHOR: Kleyman, Ya. Z. (Moscow)

TITLE: On the Established Motion of a Compressed Composite Medium (Ob ustanovivshemsya dvizhenii szhimayemoy mnogokomponentnoy sredy)

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1959, Nr 1, pp 50-55 (USSR)

ABSTRACT: The motion of an N-component mixture in a tube, the crosssection of which is a function of f(x) is considered. The
equations of motion are Eqs.(1.1) and (1.2) and the relation
Eq.(1.3) with a small derivate df(x)/dx are applied;
(p - pressure, v_no - velocity, real and reduced densities
on u-component respectively, M - mass of volume W, k_{jn} function of interaction of uth and jth component,

N - number of components, f(x) = x⁸, where s = 0 for
one-directional motion, s = 1, s = 2 - motion of cylindrical and spherical symmetry respectively). The pressure p

Card 1/4

SOV/T9-59-1-7/36

On the Established Motion of a Compressed Composite Medium

at every point of the medium is expressed by Eq.(1.4). analysis of Eq. (1.2) can be performed in order to determine the parameters of the motion. It can be shown that the sum of all N equations derived from Eq.(1.2) can be written as Eq. (1.6) and Eqs. (1.7), (1.8), obtained from Eq. (1.1) by multiplying its terms by ρ_n^o and ρ_n respectively. Excluding dp/dx from Eqs.(1.6) and (1.9) and substituting Eq.(1.7), an expression (1.10) is obtained, where A and Bn expressed as Eqs.(1.11) and (1.12). The value of A will be placed in the denominator of all parameters of the mixture. When A>0 the motion will be sub-critical and when A<0 it will be ultra-critical. The critical condition of the parameters (A = 0, Eq.(1.13)) will be related to the velocity of a mixture equal to that of sound. This can be determined from Eq.(1.13) when:

 $(\rho_1/\rho_1^0 = 1, \rho_2/\rho_2^0 = \cdots = \rho_N/\rho_N^0 = 0)$ and from Eq.(1.14).

A continuous transition from an ultra-critical to sub-critical condition is impossible, which can be shown by Eq. (1.15). In the case of a 2-component mixture expressed by Eqs. (2.1) and

Card 2/4 (2.2), the motion will be sub-critical (A>0)

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SOV/179-59-1-7/36

On the Established Motion of a Compressed Composite Medium

 $\rho_1^{o}v_1^{2} < 1/\xi$, $o_2^{o}v_2^{2} < 1/\xi$ and ultra-critical (A<0) if $\rho_1^{o}v_1^{2} > 1/\xi$, $\rho_2^{o}v_2^{2} > 1/\xi$. The variations (a decrease or

an increase) of value of the parameters can be determined by considering a relation $\gamma = M_1/M_2 = \rho_1/\rho_2$ and is expressed by Eqs.(2.3) and (2.4). The relations Eq.(2.5) and (2.6) for $\gamma = 0$ and $\Lambda = 0$ are shown in the form of a graph on p 55 for positive γ_1 and γ_2 . The curve (2.6) divides the plane γ_1 , γ_2 into two parts, each corresponding to the sub-critical and ultra-critical motions, and a straight line (2.5) - into two parts corresponding to $\lambda > 0$ and $\lambda < 0$. It can be seen from the graph that in the case of Eq.(2.4), when the motion is sub-critical and $\lambda > 0$, the content of mass of the faster component increases and the opposite applies

Card 3/4

SOY/179-59-1-7/36

On the Established Motion of a Compressed Composite Medium.

if $\lambda \le 0$. If the motion is ultra-critical, the mass of the faster component always increases. There are no tables, 1 figure and 3 Soviet references.

SUBMITTED: December 16, 1957.

Card 4/4

ELEYMAN, Ya.Z. Propagation of waves in grounds. Izv. AW Uz.83R.Ser.tekh.nauk no.3:33-43 '59. (MIRA 12:7) (MIRA 1217) 1. Institut mekhaniki AM SSSR. (Soil mechanics) (Wave mechanics)

SOV/46-5-2-5/34

Kleyman, Ya. Z. AUTHOR:

Certain Peculiarities of the Motion of Mixtures (Nekotoryye TITLE:

osobennosti dvizheniya smesey)

PERIODICAL: Akusticheskiy zhurnal, 1959, Vol 5, Nr 2, pp 157-165 (USSR)

ABSTRACT: The author discusses plane, cylindrical and spherical compression and rarefaction waves propagated in a multicomponent medium. The accustic approximation is used. It is shown that the components may be separated behind a wave-front because of differences in their velocities. Peculiarities of wave motion of mixtures, compared with similar motion of a single-component medium, are discussed. It is shown that under certain conditions an assembly of waves, propagated one behind the other, whose number is equal to the number of components, may be produced in a mixture. The first waves are similar to the compression and rarefaction waves in a single-component medium; the other waves are characteristic of mixtures and they disappear when, in the limit, the mixture becomes a single-component

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SOV/48-5-2-5/34

Certain Peculiarities of the Motion of Mixtures

medium. The paper is entirely theoretical. There is I figure and 3 Soviet references.

ASSOCIATION: Institut mekhaniki AN SSSR, Moskva (Mechanics Institute, Ac. Sc. USSR, Moscow)

SUBMITTED: January 10, 1958

Card 2/2

SOV/46-5-3-6/32

10(2) AUTHOR:

Kleyman, Ya.Z.

TITLE :

Certain Cases of Motion of Two-Component Mixtures (Nekotoryye sluchai ivisheniya dvukhkomponentnykh smesey)

PERIODICAL: Abusticheskiy shurmal, 1959, Vol 5, Mr 8, pp 301-318 (USSR)

ABSTRACT:

In an earlier paper (Ref 1) the author dealt with the principal properties of motion of multi-component mixtures, neglecting friction between components. This friction must be allowed for in solution of all concrete problems, since it may affect the results both quantitatively and qualitatively. The present paper deals with certain cases of non-steady-state motion of two-component media using the accoustic approximation and allowing for friction between components. The cases discussed are: flow of the mixture from a tube, propagation of a perturbation which arose at the medium boundary, explosions. By way of illustration the author discusses in detail the case of mater-saturated sand. The paper is entirely theoretical. Acknowledgment is made to Kh.A. Rakimatulin for his advice. There are 6 figures and 4 references, 3 of which are Soviet and 1 translation from English into Russian.

Card 1/1

ASSOCIATION: Institut mekhaniki AN SSSR, Moskva (Mechanics Institute, Ac.Sc. USBR, Moscow)

SUEMITTED: August 10, 1958

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8/179/60/000/01/009/034 E081/E535

10.4000 **AUTHOR:**

10.6000

Kleyman, Ya. Z. (Moscow)

TITLE:

The Problem of Wave Movements of Two-Component Media

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1960, Nr 1,

pp 60-69 (USSR)

ABSTRACT: The paper is a continuation of previous work (Refs 1,2,5). The problem is dealt with in the linear approximation; examples of some applications are: (1) unsteady outflow of a mixture from a cylindrical tube; (2) propagation in the mixture of disturbances arising at the boundary dividing two media; (3) explosions in two-component media. The system of equations governing the motion in plane, cylindrical and spherical waves is given at the top of p 61 in which p is the pressure, v_1 and v_2 the velocities of the components, e_1° , e_2° , e_1° , the true and reduced densities of the components, Po, initial values of pressure and true density, k the coefficient of mutual influence (the reduced density of component in a given volume of mixture is the density

5/179/60/000/01/009/034 E081/E535

The Problem of Wave Movements of Two-Component Media

the component would have if it occupied the whole volume by itself). For plane waves, s = 0, for cylindrical waves s = 1 and for spherical waves s = 2. In the last two cases x represents the radius-vector corresponding to cylindrical or spherical coordinate systems. Linearization of these equations about the rest state is accomplished by taking

 $p = p_0 + p', \rho_1^o = \rho_{01}^o + \rho_1^{o'}, \rho_1 = \rho_{01} + \rho_1'$ (1 = 1.2)

where p_0 , ρ_{01} , ρ_{02} , ρ_{01} , ρ_{02} are the values of the parameters of the undisturbed body and p', ρ_1^0 , ρ_2^0 , ρ_1^0 , ρ_2^0 , ρ_2^0 , ρ_2^0 , ρ_2^0 , are very small quantities. The velocity components ν_1 and ν_2 are also very small. After linearization, the equations (1) to (5) are obtained, from which are derived equations (7), (8) and (9) in the three unknowns p'(x,t), $\nu_1(x,t)$, $\nu_2(x,t)$. The initial conditions are expressed by (10) and the boundary

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5/179/60/000/01/009/034 E081/E535

The Problem of Wave Movements of Two-Component Media

condition by (11), where $x_0 = x_0(t)$ is the boundary coordinate. These equations are solved by introducing the operational representation $p(m,x) = \int_{0}^{\infty} p'(x,t)e^{-mt}dt, W_1(m,x) = \int_{0}^{\infty} w_1(x,t)e^{-mt}dt \quad (i=1.2)$

which leads to the ordinary differential equation (14) subject to the condition (15). For plane waves (s = 0) the solution of (14) is given by (16); the expression (20) is the representation of the velocity components. The initial velocity components v_{gl} , v_{g2} at the boundary $x = x_0$ are given for constant boundary pressure f_g by Eq (21) and, for a pressure which is an arbitrary function f(t) of time, by (23). It follows from (23) that the paths described by the particles situated on the dividing boundary at zero time are given by (25). To find the parameters of the mixture at an arbitrary point x, the radical in (18) is resolved into a series with negative powers of m, which with the aid of the function $\Phi(Eq 26)$

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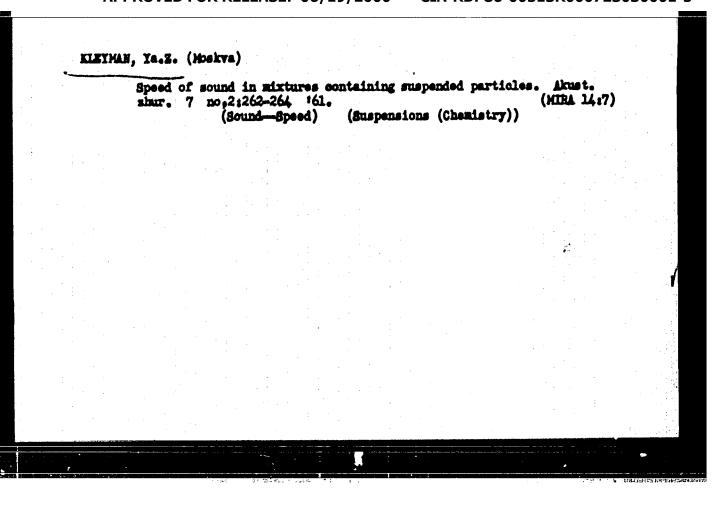
8/179/60/000/01/009/034 E081/E535

The Problem of Wave Movements of Two-Component Media

leads to Eqs (27) and (28). Using (23) and (27) in (16) and (20) gives the equations (29) for p'(x,t) and v₁(x,t). For constant boundary pressure, these become Eqs (31). For spherical symmetry (s = 2), the solution of (14) is (33). The velocity components are represented by (35), and on the basis of (27), (19), (34), (33) and (35), p'(x,t) and v₁(x,t) are given by (36) (not numbered in text). For constant boundary pressure (36) is replaced by (39). For cylindrical symmetry (s = 1) the general solution of (14) is expressed in terms of cylinder functions of purely imaginary argument. In this case the velocities are represented by the first equation p 69 and p'(x,t), v₁(s,t) by the second and third equations respectively.

SUBMITTED: June 30, 1958

Card 4/4



KLEYMAN, Ya.Z.

Introducing the concept of interpenetrating streams in hydraulics. Isv. AN Us. SSR. Ser. tekh. nauk 9 no.4:61-69 '65.

(MIRA 18:10)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723030001-5"

ACC NR. APC029530

(N)

BOURCE CODE: UR/0046/C6/012/003/0325/0332

AUTHOR: Kleyman, Ya. Z. (Moscow)

ORG: none

TITLE: Form of the surface of a weak discontinuity in a medium with variable speed

of sound

SCURCE: Akusticheskiy zhurnal, v. 12, no. 3, 1966, 325-332

TOPIC TAGS: acoustic speed, sound wave, wave propagation, wave front, shock wave

front, waveguide acoustics

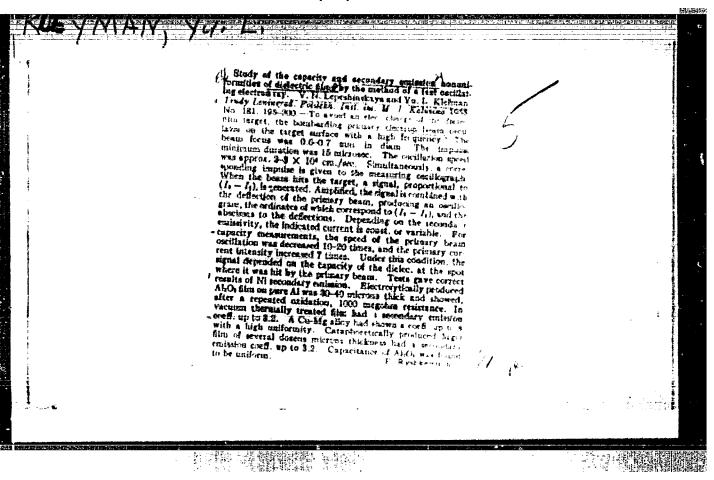
ABSTRACT: To obtain an analytic method of determining the front of a sound wave propagating in an inhomogeneous medium or in a medium with variable temperature, and to investigate the laws governing the propagation of weak shock waves in inhomogeneous media, the author considers the propagation of waves between two parallel planes or in a tube of round cross section. It is assumed that in the case of the plane boundaries the velocity of sound in any point depends only on the distance between the point and the boundary, and in the case of a tube it depends on the distance to the tube axis. Only the deformation of the wave front due to change in the speed of sound along the coordinate is considered, and reflection is not taken into account. A partial differential equation is derived for the wave front and its solution is obtained in closed form. Several particular examples are considered. These include the limiting surface of a weak shock wave front propagating near the earth's surface.

Cord 1/2

UDO: 534.222.1

ACC NR. A76029530					
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KLEYMAN, Z.Ya.

Apparatus for determining the monumnical equivalent of heat. Patent U.S.S.R. 71, 756, Dec. 31, 1949. (GA 47 no.1919682 153)

ACCESSION HR. APho36573

3/0139/64/000/002/0160/0165

AUTHORS: Kloyman, Z. Ya.; Stefanova, T. A.

TITIE: Effect of x-rays on properties of point-contact germanium diodes

SOUNCE: IWZ. Fisika, no. 2, 1964, 160-165

TOPIC TAGS: germanium diode, rectification factor, photoelectric emission, reverse potential, charge carrier, semiconductor, URS 70 apparatus

AUSTRACT: The offect of x-rays on the germanium diode p-n junction characteristics was studied. Types of diodes irradiated were DG-Ts2, DG-Ts1 and DG-Ts8. The x-rays were supplied by UGS-70 apperatus with tungsten and copper anticathodes. The distance between the irradiated diodes and the x-ray anticathode tube was 10 cm. The results showed that the current strength is unaffected in the forward direction but increases sharply in the reverse direction, thus substantially lowering the diode rectification factor. A series of tests was conducted to study the dependence of the photoelectric enhancement of the reverse current Δ I on the radiation intensity. This effect was measured as a function of x-ray tube emission current rate, the accelerating potential, and the reverse potential, with one or

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pendent of potential the number barrier la	tors and l the hard range. The of free e yer. The	holes d ness of nis is electro result	in electr I the inc shown to one and d te show t	ree minority or on semiconduction tx-rays or be caused by lecreasing the the possibilitant. has: 7 f	in the 15-6 a componsa air absorpti	is found O ky acco tion botwo on capaci	i to be indo loration son increasi by in the)-	
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When comrades live in accord. Posh.delo 7 no.9:29 S '61.

(MIRA 14:11)

(Zaporosh'ye Province—Fire extination—Societies)

KEENENNA, A., Inch.; CHIRYAYEV, Yo., Inch.; SAFRCEHIA, V.

The "Elektron-2" receiver. Radio no.5:47-48 by '65. (MISA 18:5)

KIEYMENOV, A., inzh. Automating the selling of tickets. Rech. transp. 24 no.5:27-28 (MIRA 18:9) 165. 1. Ministerstvo putey soobshcheniya. **建筑 计**

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EWI(d)/EWI(1)/EWP(c)/EWP(w)/EWP(k)/EWP(h)/EWP(1)1. 33768-66 IJP(c) ACC NR. AP6006141

SOURCE CODE: UR/0376/65/001/010/1292/1300

AUTHOR: Gerashchenko, Ye. I.; Kleymenov, A. F.

ORG: Swerdlovsk Department of the Mathematical Institute im. V. A. Stellow (Swerdlovskoye otdeleniye Hatematicheskogo instituta)

TITLE: Analysis of a nonlinear system by the method of separation of motions

SOURCE: Differentaial'nyye uravneniye, v. 1, no. 10, 1965, 1292-1300

TOPIC TAGS: nonlinear differential equation, nonlinear mechanics, nonlinear oscillation

ABSTRACT: The authors apply the method of separation of motions to the investigation of a system in a forced slipping regime through the organization of high-order slipping regimes. The system as discussed by Ye. A. Barbashin and Ye. I. Gerashchenko (Differentsial'nyye uravneniye, 1, no. k. 25-32, 1965) contains a controlled object with nonlinearities characteristic of those found in practice, such as constraints, insensitive zones, and free-playing slack. Accelerated slippage is important because it imparts to a control system the properties of essentially nonlinear systems and intensifies the "roughness" of the controller relative to the parameters of the controlled object, besides improving the quality of control. To realize a forced slipping regime necessitates complicating the structure of the controller, which leads to con-

Card 1/3

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ACC NR: AP6006141

siderable difficulties in the mathematical analysis of the system. The stability of a system consisting of a control and linear object is regularly investigated by separation of the motions into fast and slow components. This is the method of A. A. Andronov, A. A. Vitt, and S. E. Khaykin in the theory of discontinuous oscillations. However, the controlled object is generally nonlinear; therefore, the present report demonstrates how to apply this method of separation of motions to the investigation of the above slipping regime. It considers the following system:

$$\frac{dx_1}{dt} = x_1, \quad \frac{dx_2}{dt} = \Phi(x_1, x_2),$$

$$\frac{dx_2}{dt} = -ax_2 - bx_2 - cx_1 - K \Psi(|x_1| \operatorname{sign} \sigma_1),$$

$$\sigma_1 = x_2 + Ax_1 + B|x_1| \operatorname{sign} \sigma_2, \quad \sigma_2 = Cx_1 + x_2,$$

where $x=(x_1,x_2,x_3)$ is a controlled vector quantity; $\theta(x_3,x_3)$ is a piecewise-linear function, possibly multiply-valued, which describes the nonlinearity of the constraint in the coordinate x_3 and of the free-playing slack; $Y(|x_1| \operatorname{sign} \sigma_1)$ is also a piecewise-linear function, which describes the zone of insensitivity of the switching device or controller; G is a positive constant. The problem is to evaluate the influ-

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29560 8/122/61/000/005/011/**4**13 D221/D304

AUTHORS:

Kogan, M.G., Candidate of Technical Sciences, Koroiev, V.P., Kleymenov, A.I., and Baranov, L.N., Engineers

TITLE:

Baths for ultrasonic cleaning of components

PERIODICAL: Vestnik mashinostroyeniya, no. 5, 1961, 68 - 69

TEXT: The Scientific Research Technological Institute developed a series of baths, Y3B-15-Y3B-18 (UZV-15-UZV-18) for ultrasonic cleaning of components. They are made of stainless steel, and sources of ultrasonic vibrations of 20 Kc, in the form of magnetostrictive transformers, type NMC-6M (PMS-6M) are fixed into their bottom. The radiation diaphragm of each transformer is a square with a 300 mm side. The baths are enclosed into soundproof casings, which form a decorative facing at the same time. Seals are provided in the covers of sound insulating casings. An outlet is fixed under the cover, and the former is connected to the ventilation system of the shop. The coiled pipe in the bath is used for feeding Card 1/3

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29560 8/122/61/000/005/011/013 D221/D304

Baths for ultrasonic cleaning ...

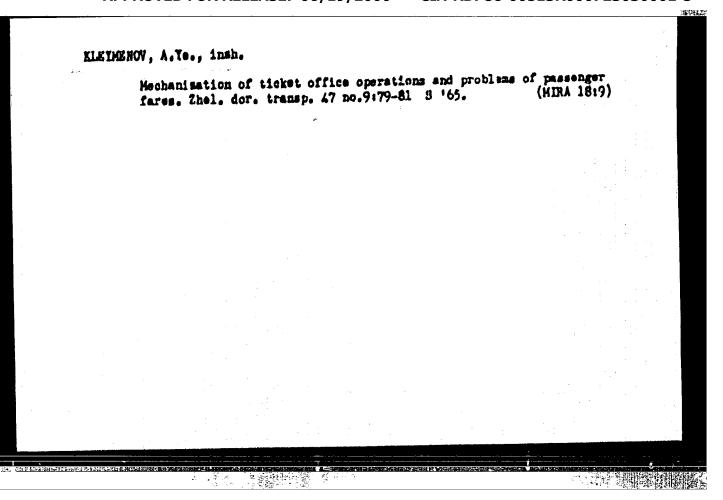
cold or hot water to control the temperature of the cleaning fluid. The vibrators are cooled with normal feed water which is consumed at the rate of 3 1/min per vibrator. Gnerators Y37-10 (UZG-10) and UZG-2.5 supply the oscillatory power (10 and 2.5 kw respectively). Cleaning the components is achieved by organic dissolvents or in water solutions of alkalis and synthetic surface active substances. The use of acids is limited by cavitation and corrosion registance of baths and of the radiation surface of vibrators. Gasolene TARO-WA (Galosha) as per FOCT- (GOST)443-56, is the most widely used organic dissolvent for removing grease and mechanical ingress of dirt. Cleaning components of resins and nitroenamels takes place in acetone mixed with alcohol, at a temperature of 30°C. Use of chloride organic dissolvents is restricted by their toxicity. Normally, cleaning in organic dissolvents is accomplished in two or three consecutive baths, the last one for final cleaning. The duration of operation depends on the degree of dirt and the form of components, and varies from 2 to 5 minutes. Cleaning in water solutions of alkalis and synthetic surface active substances takes place in one bath. A description is given of materials employed and Card 2/3

29560 8/122/61/000/005/011/013 D221/D304

Baths for ultrasonic cleaning ...

temperature conditions. These baths are efficient for components and assemblies for precision instruments and mechanisms, watches, optical parts and where high quality cleaning must be guaranteed. There are 2 figures.

Card 3/3



KLZYMUNOV, A.Ye., inzh.

Use of ticket printing machines in railroad stations. Ziel.dor. transp. 45 no.7:76-79 J1 '63. (HIRA 16:9) (Railroads—Tickets) (Printing machinery and supplies)

(Mechanization and automation of the operations of station ticket and cash offices) bekinnizatella i avtomation zatella bileino-kassovykh operatell na vokzalakh. Mozava, Transport, 1964. 106 p. (hibi 1717)

PHASE I BOOK EXPLOITATION SOV/4556

- Ayzenberg, B.I., Engineer, B. M. Kleymenov, Engineer, S.K. Mamontov, Engineer, B.M. Meyl'man, Engineer, Ya. S. Mindlin, Engineer, A.M. Palant, Engineer, and Ye. S. Yampol'skiy, Engineer
- Proyektirovaniye mashinostroitel'nykh savodov; spravochnoye posobiye po organizatsii i metodike proyektirovaniya (Planning of Machine-Building Plants; Reference Book on the Organization and Methods of Planning) Moscow, Mashgiz, 1960. 379 p. Errata elip inserted. 13,000 copies printed.
- Ed.: B.I. Ayzenberg, Engineer; Reviewer: I.S. Zotov, Engineer; Ed. of Publishing House: V.I. Yakovleva; Managing Ed. for Information Literature; I.M. Monastyrskiy, Engineer; Tech. Ed.: Z.I. Chernova.
- PURPOSE: This book is intended for engineers and technicians engaged in planning machine-building plants.
- COVERAGE: The authors discuss problems in the organization of planning machine—building plants. Included is information on the makeup of planning organizations, development of documentation, selection of construction site, investigations of plants to be reconstructed, preparation of planning, examination and Card 1/o-

Planning of Machine-Building (Cont.)

80V/A556

approval of documentation, and mechanization of calculations and drafting. Definition of principal concepts are given and the contents of the planning documentation are discussed. No personalities are mentioned. References accompany two chapters.

TABLE OF CONTENTS:

Ch. I. Organization of Planning (By A.M. Palant, Engineer)	5
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Card 2/4

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31566 5/081/61/000/022/062/076 B101/B147

//. 9700 AUTHORS:

Sanin, H. I., Shepeleva, Ye. S., Ul'yanova, A. V.,

Kleymenov, B. V.

TITLE: Synthesis a

Synthesis and properties of antiwear additives to lubricants

PERIODICAL: Referativnyy shurnal. Khimiya, no. 22, 1961, 397, abstract 22M122 (Tr. In-ta nefti. AN SSSR, v. 4, 1960, 98 - 117)

TEXT: A four-ball friction machine was used for studying the effect of various antiwear additives consisting of high-molecular aliphstic esters and organic compounds of S, P, and Cl. The authors employed solutions of the additives (6 mmoles per 100 g) in highly pure mineral oil (viscosity 20.8 centistokes at 50°C). Of no use under heavy load were additives the effect of which was based on adsorption only (high-molecular esters and higher fatty acids). Additives containing Cl (methyl esters of mono- and dichloro stearic acid, tetrachloro naphthalene, fractions of chlorinated paraffin) increased the critical load (CL) (the seizing load), and considerably reduced the wear under loads higher than CL. Additives of the types (RS)₃P and (RO)₃PS were found to reduce CL with increasing length Card 1/2

31566 \$/081/61/000/022/062/076 B101/B147

Synthesis and properties ...

of the alkyl, $R(C_1 - C_{18})_1$ efficient additives of these types should contain $R = C_3 - C_5$. $(RS)_3 P$ proved to be more efficient than $(RO)_3 PS$. In additives containing P and S, P mainly increased the CL while S decreased the wear under loads above CL. Phosphinic esters, $R'PO(0R)_2$, proved to be more efficient than phosphoric esters containing no C-P bond. Introduction of Cl in phosphinic and phosphoric esters increased the efficiency of additives, and reduced the wear under loads above CL. Phosphinic and phosphoric esters containing the CCl₃ group were of utmost efficiency. The effect of the CCl₃ group increasing the efficiency of antiwear additives was confirmed by the action of tetrachloro alkanes. $CCl_3(CH_2)_RCl$ (n = 3 - 5). The authors discuss the mechanism of action of antiwear additives containing various active elements and groups. There are 21 references. See also RZhKhim, 1961, 5M233. [Abstracter's note: Complete translation.]

Card 2/2

306 91 3/510/60/014/000/006/006 D244/D307

119766

Sanin, P.I., Shepeleva, Ye.S., Ul'yanova, A.V., and AUTHORS:

Kleymenov, B.V.

Synthesis and properties of anti-wear additives to lubri-TITLE:

cating oils

Akademiya nauk SSSR. Institut nefti. Trudy, v. 14, 1960, SOURCE:

Khimiya nefti, 98 - 117

TEXT: The authors synthetized the wear-reducing properties of Cl, S and P compounds and also thio-phosphoroorganic and chlorophosphoroorganic compounds. The anti-wear properties were examined by dis-solving the additives in a highly refined mineral oil, viscosity 20.8 cs at 50°C. The concentration of all the additives examined was 6 millimoles per 100 g of oil. The four-ball machine was used as a wear-tester with standard 12.7 mm diameter balls from UX-9 (ShKh-9) steel. The tests were conducted at 600 rpm. It was shown that the high molecular weight esters and acids which were assumed to have adsorptional anti-wear mechanisms, were not effective during the rubbing under high loads. Chlorinated esters of stearic acid and Card 1/3

S/510/60/014/000/006/006 D244/D307

Synthesis and properties of anti-wear ... D244/D307

also fractions of chlorinated paraffin wax reduced the wear considerably above the seizure load. The best results were obtained with the wax fraction containing about 40 % Cl, the base oil containing about 7 % of the additive. For a series of esters (R S)3P and (R O)3 PS the critical load that could be tolerated by the oil blend, decreased with the increasing length of the hydrocarbon radical R. Thus any of the compounds with $\bar{R} = C_3 - C_5$ could be considered as possible additives. Trialkyl phosphates were less active as additives than trialkyl trithiophosphates. The presence of P and thiophosphate types exerted a predominant influence on their capacity to increase the critical load. The presence of S improved the wear-reducing properties at loads above the critical load. Chlorine in esters of chloralkylphosphorous acids acted in the same direction as S in thiophosphites. Thus the presence in one compound of P and Cl or P and S is very beneficial. The phosphite compounds R'PO (OR)2 having a C-P link, were considerably more active than the compounds containing only alkoxy groups, such as phosphites. It was shown that compounds containing the group - CCl3 have high anti-wear activity. Card 2/3

S/510/60/014/000/006/006
Synthesis and properties of anti-wear ... D244/D307

Esters CCl₃ P (OR)₂ increased the critical load to a value more than twice of that for the base oil and decreased the wear considerably in the region of high loads. It was established that the specific activity of the compounds containing CCl₃ group is due to a high reactivity of Cl in the group with metal surfaces, on which a chloride film is formed. The wear reducing properties of additives of the CCl₃ P (OR)₂ type is due to the simultaneous action of the reactive Cl and P resulting in the formation of chloride and phosphide films on the rubbing metal surfaces. There are 12 figures and 9 tables.

Card 3/3

82511 s/065/60/000/008/003/007 E030/E412

15.6600 AUTHORS :

Sanin, P.I., Shepeleva, Ye.S. and Kleymenov, B.V.

TITLE:

Some, Data on the Activity of Additives Containing the

CC13/Group

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1960, No.8, pp. 24-28

It has been shown that molecules containing phosphorus, and CCl3 groups are exceptionally good friction-reducing additives under high loads. Presumably this is due to the formation of phosphides TEXT It is not merely the presence of and chloride layers on the metal. chlorine which imparts activity, since monochloro-alkanes are not particularly effective, but the CCl3 group as a whole. This group is known to be particularly reactive, as in the action of electrophilic or copper reagents, and in the formation of 1,5,5,6,6,10-hexachlorodecane from 1,1,1,5-tetrachloropentane. The base greases had a kinematic viscosity of 20.8 cs at 50°C. trichloro compounds were formed by the polymerization of ethylene in the presence of carbon tetrachloride and were added as 6 times millimolar to the grease. The greases were subjected to the four-Firstly, the effect of the trichloro group was shown by ball test. Card 1/3

82511

S/065/60/000/008/003/007 E030/E412

Some Data on the Activity of Additives Containing the CCl3 Group

comparing the base grease, which had a critical load of 64 kg, with a,a,a,e tetrachloro-alkanes which had critical loads from 100-110 (C5 was as high as 130 kg). This behaviour is analogous to that of CCl_k, which is active, and of monochloro-alkanes, which are relatively inactive. Secondly, the addition of phosphorus was shown to increase the surface activity/still further, as shown by comparing the methyl, trichloro and chloro ethylethers of methylphosphonic acid (critical loads less than 170 kg), and the trichloroethyl-diethyl ether of phosphonic acid (130 kg). Increasing the additive concentration fourfold had no effect. Increasing the number of CCl₃ groups produces further striking increases in the high-load properties and in fact no critical loads could be observed with tri (trichloroethyl) phosphate and tri (trichlor-tert, butyl) phosphate, and the mark was only 8 mm in diameter at 300 kg load (30000 kg/cm² pressure). Smaller variations in activity and thermal stability were dependent on the position of the CCl₃ group in the molecule. There are 3 figures,

Card 2/3

82511

5/065/60/000/008/003/007 E030/E412

Some Data on the Activity of Additives Containing the CCl3 Group

3 tables and 11 references: 5 Soviet and 6 English.

ASSOCIATION: Institut neftekhimicheskogo sinteza AN SSSR (Institute for Petro-Chemical Synthesis, AS USSR)

Card 3/3

KLETKEROV, B.V., SANIN, P.I.

Mobile table for a microscope measuring the wear of steel balls. Zav.lab. 26 no.7:884-885 160. (MIRA 13:7)

1. Institut neftekhimicheskogo sintesa Akademii nauk SSSR. (Microscopy) (Ball bearings-Testing)

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43 SOV/6034 Chemistry and the Use of Organophosphorus (Cont.) Organophosphorus Compounds held at Kasan' from 2 Nov through 1 Dec 1959. . The material is divided into three sections: Chemistry, containing 67 articles; Physiological Activity of Organophosphorus Compounds, containing 26 articles; and Plant Protection, containing 12 articles. The reports reflect the strong interest of Soviet scientists in the chemistry and application of organophosphorus compounds. References accompany individual reports. Short summaries of some of the listed reports have been made and are given below. TABLE OF CONTENTS: [Abridged]: 3 Introduction (Academician A. Ye. Arbusov) TRANSACTIONS OF THE CHEMISTRY SECTION Gefter, Ye. L. [NII plastmass (Scientific Research Institute of Plastics, Moscow). Some Prospects for the Industrial Use of Organophosphorus Compounds Card 2/14 · 四次

Chemistry and the Use of Organophosphorus (Cont.)

SOV/6034

detergents, anticorrosion agents, antiwear additives, as well as serve as demulsifiers, antioxidants, and depressants. Methods for preparing industrial additives by synthesis are pointed out and described.

Sanin, P. I., Ye. S. Shepeleva, and B. V. Kleymenov Institute of Petrochemical Synthesis]. Organophosphorus Compounds With

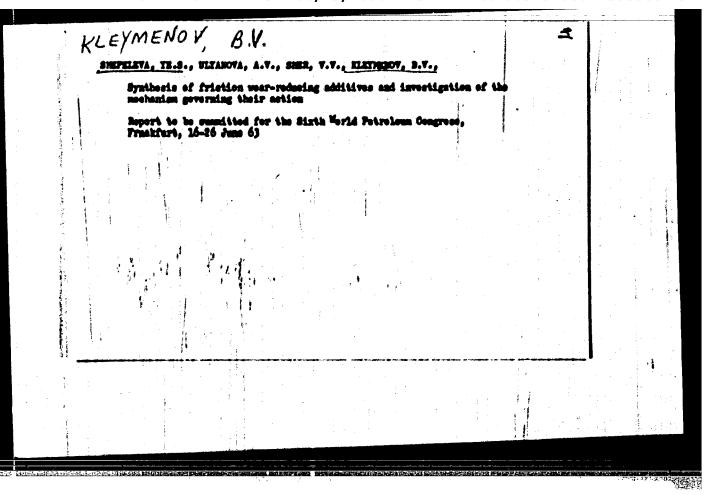
389

CCl₃ as Additives to Lubricants
A synthesis of compounds containing the CCl₃ group has been made and their effect as wear-reducing additives under friction conditions at high loads studied. It has been shown that the effect of this type of compound depends largely on the presence of the CCl₃ group in the molecule and that the chloride film on the friction surface of the metal develops due to the effect of the chlorine atoms in the CCl₃ group.

Voskresenskiy, V. A. [Kazanskiy inzhenerno-stroitel'nyy institut (Kazant Construction Engineering Institute)]. Trichlorotricresyl

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SANIN, P. I.; SHEPELEVA, Ye. S.; MANNIK, A. O.; KLEYMENOV, B. V.

"Chemical modification of friction surfaces."

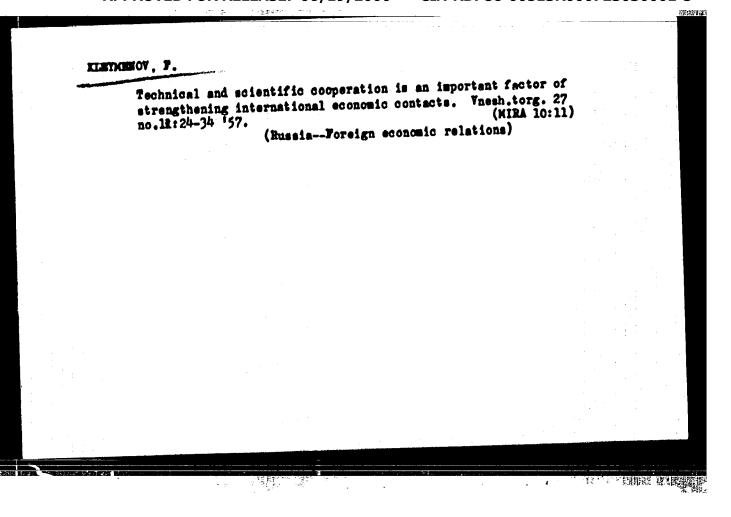
report submitted to Intl Lubrication Conf, Washington, D.C., 13-16 Oct 64.

SANIN, P. I.; SHEPELEVA, Ye. S.; MANNIK, A. O.; KLEYMENOV, B. V.

"Chemical modification of friction surfaces."

report presented at the Intl Lubrication Conf, Washington, D.C., 13-16 Oct 64.

Inst of Petrochemical Synthesis, AS USSR, Moscow.



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KLEYMENOY, Fedor Ivanovich; OLEHAY, V.S., redaktor; ISLAMKIMA, T.F., redaktor; Tolamat'YEVA, P.G., tekhnicheskiy redaktor.

[Underground coal gasification] Podsesnaia gasifikatsiia uglei.
Moskva, Isd-vo "Znanie," 1955. 39 p. (Vsesoiusnoe obshchestvo po
rasprostraneniiu politicheslikh-i nauchnykh znanii.Ser.4, no.35)
(Coal Gasification, Underground) (MLRA 8:11)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723030001-5"

ZAKUTSKIY, Ivan Petrovich; KRUGIOV, Oleg Vladimirovich; KLEYMKEOV, F.I., otvotstvenmy red.; SABITOV, A., tekhn.red.

[Underground gasification of coel in the Donets Basin] Podsemaia gasifikateiia kamennykh uglei v Donbesse. Moskva, Ugletekhizdat, 1957. 26 p.

(Donets Basin—Goel gasification, Underground)

(Donets Basin—Goel gasification, Underground)

ZHUKOYA, A.P., rukovoditel'; POPOY, I.A., rukovoditel'; RYKOYA, Z.L., rukovoditel'; ARKHIPOY, N.A., stershiy neuchnyy sotrudnik; DZHIMSHMIMYSHVILI, Sh.P., stershiy neuchnyy sotrudnik; DMITRIYMY, O.Y., stershiy neuchnyy sotrudnik; ZHURAYKOY, M.Y., stershiy neuchnyy sotrudnik; ISTOMIN, P.S., stershiy neuchnyy sotrudnik; MURBATOY, A.K., stershiy neuchnyy sotrudnik; MURBATOY, A.K., stershiy neuchnyy sotrudnik; PODIMA, N.I., stershiy neuchnyy sotrudnik; BOYKOY, N.A., otvetstvennyy red.; EMIL'KM, O.Y., otvetstvennyy red.; SHARAYMY, A.N., otvetstvennyy red.; SHARAYMY, A.N., otvetstvennyy red.; SHARAYMY, A.N., otvetstvennyy red.; BUTAZOY, V.Y., tekhn.red.; SARBBITOY, A., tekhn.red.

[Progressive prectices and new equipment] Peredovoi opyt i novaia tekhnika. Moskva, Ugleteknisdat, 1957. 386 p. (MIRA 11:4)

1. Russia (1923- U.S.S.R.) Ministerstvo ugol'noy promyshlennosti. TSentral'nyy institut tekhnicheskoy informatsii. 2. TSentral'nyy institut tekhnicheskoy informatsii Ministerstva ugol'noy promyshlennosti SSSR (for Zhukova, Popov, Rykova, Arkhipov, Dzhimsheleyshvili, Dmitriyev, Zhurakov, Istomin Kurbatov, Metlina, Pugina) (Ucal mines and mining)

KLEYMENON, I.

27-11-15/31

AUTHOR:

Kleymenov, I,, Chief of Mechanical Assembly Shop of the Plant imeni Vladimir Il'ich, and Paley, A., Senior Poreman of the Shop

TITLE:

A Graduate Came to the Workshop (Vypusknik prishel v tsekh) From the Plant's Experience (Iz savodskogo opyta)

PERIODICAL:

Professional'no - Tekhnicheskoye Obrasovaniye, 1957, # 11, p 22-23 (USSR)

ABSTRACT:

The article states that the collective of any enterprise is, to a considerable extent, composed of graduates of trade schools and PZO. The Mechanical Assembly Shop of the Plant imeni Vladimir Il'ich is typical in this respect. Every year, many new workmen come to the shop from Trade School # 51 (Remeslennoye uchilishche # 51). The article emphasizes that the youths quickly learn to handle the tools and equipment and show high productiveness. A number of men who have distinguished themselves in their jobs, and others who have been less successful are mentioned. The article describes the cases where the young workmen have displayed zeal, and complains about the little attention given by the foremen to the students

Card 1/2

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723030001-5

A Graduate Came to the Workshop. From the Plant's Experience 27-11-15/51
during their practical training at the plant.

ASSOCIATION: Plant imeni Vladimir Il'ich (Zavod imeni Vladimira Il'icha)

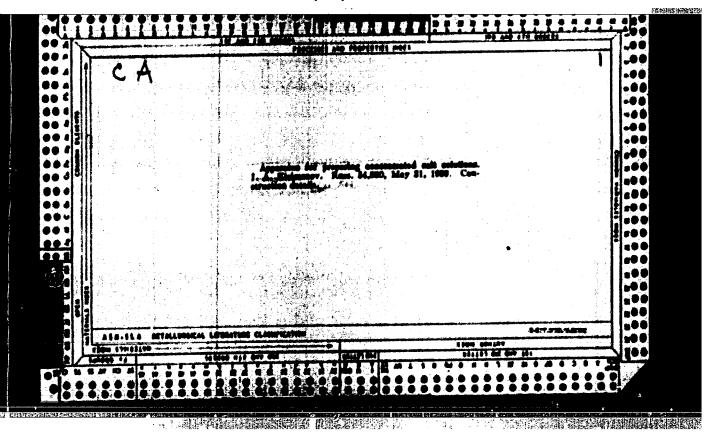
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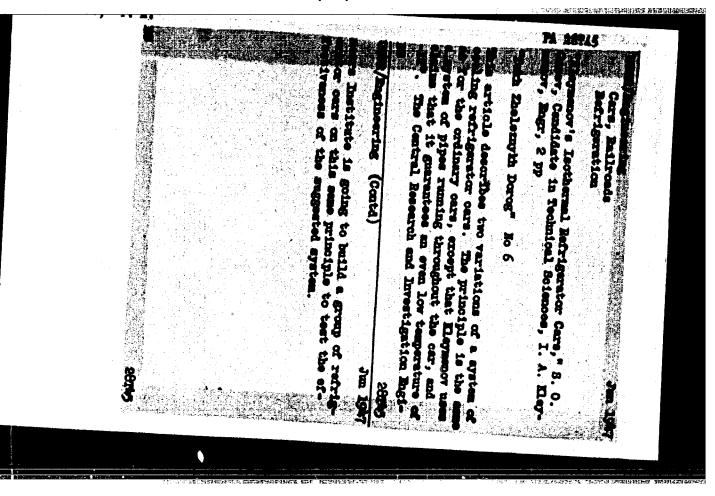
Card 2/2

Automatic cooling tower for the freezing-on of ice. Encl. tekh. 37 no. 6:45-47 H-D '60. (MIMA 13:12) 1. Vessoyusnyy nauchno-issledovatel'skiy institut shelssnodorosh-nogo transporta. (Gooling towers) (Ice)

Assembly of 24-mater reinforced concrete trusses. Prom.stroi. i insh. soor. 4 no.4:45 Jl-Ag '62. (MIRA 15:9) 1. Trest "Makstroy". (Trusses) (Precast concrete construction)

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723030001-5





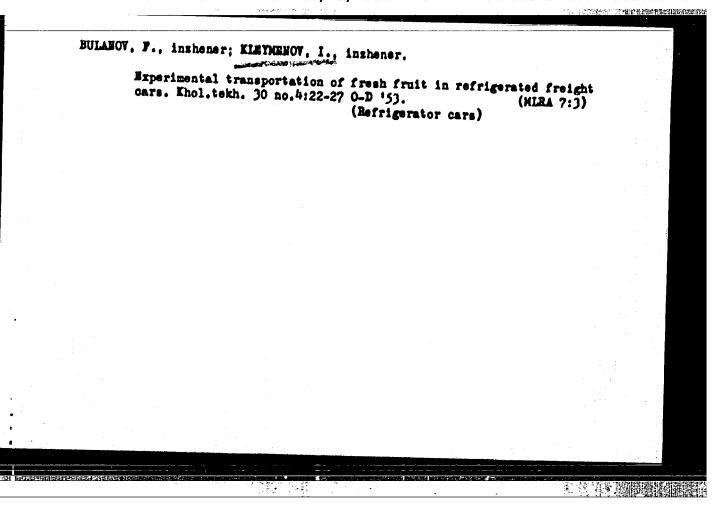
APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723030001-5"

POMIN, A.; KLHYMRNOV, I.

Refrigerator Cars

Eleymenov's all-metal constant temperature railroad car | Ehol. tekh. 29 No. 1, 1952.

Monthly List of Russian Accessions. Library of Congress, May 1952. UNCLASSIFIED



Autonation in ice manufacture. Zhel. dor. transp. 43 no. 1:68-69
Ja '61. (HIRA 14:4)

(Ice-Manufacture) (Automatic control)

KINYMENOV. I.Y., kand.tekhn.neuk; USPINSKAYA, Z.P., kand.khim.neuk; Lamausva, T.M., mladshiy nanchnyy sotrudnik.

Changes occurring in ealt fish kept in brines. Trudy VMIRO 35:159-176 (MIRA 11:11)

l. Laboratoriya metodov kontrolya i standartizatsii rybnykh produktov Vsesoyusnogo nauchno-issledovatel'skogo instituta morskogo rybnogo khozysystva i okeanografii. / (Fish, Salt) (Fishery products—Storage)

BELOUSOV, D.P., insh.; SABUROV, N.V., prof.; SHIROKOV, Ye.P., kand. sel'khoz. nauk; MOSHKOVICH, I.K., agronom; UL'YANOV, A.P., agronom; KRASNOKUTSKAYA, S.V., kand. sel'khoz. nauk; ZOLOTOVA, A.I.; KALININA, N.N.; DAVIDOVA, R.B., prof.; KURKO, V.I., kand. tekhn. nauk; KLEYMENOV, I.Ya.; VCROB'YEVA, A.A.; DEMEZER, A.A.; ROSSOSHANSKAYA, V.A., red.; BALLOD, A.I., tekhn. red.

[Home canning and processing of agricultural products] Konservirovanie i pererabotka sel'skokhoziaistvennykh produktov v domashnikh usloviiakh. [By] D.P. Belousov. Moskva, Sel'khozizdat, 1963. 406 p. (MIRA 16:10) (Canning and preserving)

VLASHCHENKO, L.F.; NOVIKOV, V.M.; ZINOV'YEVA, M.M.; SIDOROVA, A.P.;

KARDASHOVA, A.A.; KLETMENOV, I.Ya.; KRASKOPOL'SKIY, N.M.

[deceased]; LUKASH, Ye.G.; SARDFALOV, P.Ye.; YASHINA,

Ye.I.; KULIKOV, P.I., dots., retsenzent; MAKAROVA, T.I.,

kand. tekhn. nauk, retsenzent; MERENBURG, A.N., spets. red.;

KOSSOVA. O.N., red.; SOKOLOVA, I.A., tekhn.red.

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Spravochnik tekhnologa rybnoi promyshlennosti. Moskva, Pishchepromizdat. Vol.1. 1963. 589 p. (MIRA 17:3)

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723030001-5

USSR/Diseases of Farm Animals. Diseases Caused by Protozca.

Abs Jour: Ref Zhur-Biol., No 3, 1958, 12283.

Author : Concharov, I. Ye., Klaymenov, K. C., Fedorchenko, V. V.,

Kobenko, S. P.

Inst : Daghestan Institute of Agriculture

: Experimental Uses of ASD FR-2 in Theileriosis of Title

Large Hornei Cattle. (Preliminary Report).

Orig Pub: Tr. Dagest. s.-kh. in-ta, 1955, 6, 25-26.

Abstract: In cases of theileriosis and in cases of a mixed invasion of theileriosis and piroplasmosis, ASD FR-2 was intravenously administered in a 25 percent solution of a 0.7-1.0 ml/kg dose with a simultaneous hypodermic injection of a 10 percent caffeine solution in the usual dose. The preparation was administered during the clinical stage of the disease. Of the

Card : 1/2

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723030001-5

22019 Kleyrenov, P. Te. lecheniye snow yazuy zheludka i dveradtzatiperatnoy kishki v usloviyakke e-etalalizirovannogo zheludochno-kishech-nogo zaratoriya. Sov. Vracheb.

SC: letopis' Zhurnal'nykh Statey, No. 79, Moskva, 1940.

KLEYMENEV, N.A.

USSR/ Physical Chemistry - Kinetics. Combustion. Explosives. Topochemistry.

Abs Jour

: Referat Zhur - Khimiya, No 4, 1957, 11220

Author Title

: Kleymenov N.A., Antopova I.N., Markendch A.N., Halbandyan A.B.

: Oxidation of Methane by Oxygen Atoms Formed on Thermal Decomposition

Orig Pub : Zh. fiz. khimii, 1956, 30, No 4, 794-797

Abstract : Formation of peroxide on oxidation of CH, under conditions of flow (mixture CH_b: O₂ = 1:1, rate of flow 400 cc/minute) in the presence of 1.45% O₃ becomes apparent at the same temperature (100-110°) that decomposition of O₃ begins. On this basis the authors consider that initiator action is associated not with the Ogmolecule but with O atoms which are decomposition products of O3.

That Chem. Phy., AS USSR, Moscow

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APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723030001-5"

KLEYMENOV, N. A.

USSR/Kinetics. Combustion. Explosions. Topochemistry. Catalysis.

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26246

Author : Academy of Sciences of USER Inst Title

: Part Played by Surface in Reaction of Thermal Decomposition

Orig Pub ; Dokl. AN SSSR, 1956, 110, No 1, 105-107

Abstract : The decomposition of ozone (03) in a flow at atmospheric pressure was studied by the method of divided calorimetric measurements. The decrease of varming up was observed with the increase of the radius of the central capillary containing one of the junctions of the differential thermocouple. In authors' opinion, this suggests that the decomposition of O3 includes an endothermic stage of 03, dissociation taking place on the vessel walls. The next stage seems to be a homologous exothermal reaction, in which the atoms produced on the surface take part. The earlier proposed mechanism (RZhEhim, 1955, 36907) consisting in a homologous dissociation of 03 molecules and a following recombination of 0 atoms on the vessel surface is rejected.

Card : 1/1

> **APPROVED FOR RELEASE: 06/19/2000** CIA-RDP86-00513R000723030001

AUTHORS:

Kleymenov, M. A., Malbandyan, A. B.

20-1-55/58

机构造的加强

TITLE:

The Interaction Between Ozone and Methyl Hydroperoxide (O vzaimodeystvii meshdu osonom i gidroperekis'yu metila).

PERIODICAL:

Doklady AN SSSR 1958, Vol. 118, Nr 1, pp. 125-127 (USSR)

ABSTRACT:

Into an evacuated retort of a content of 8,5 1 (which was kept at a given temperature in a thermostat) given quantities of hydroperoxide and then of ozonized oxygen were quickly introduced. The concentration of ozone exceeded in all experiments the concentration of peroxide 5-6fold. By means of the process discussed here peroxide can qualitatively be separated from ozone. The results of these experiments are given in a diagram which shows the dependence of the concentrations of methyl peroxide on the duration of keeping the reacting mixture at the temperatures of 25, 34, 43, 52 and 640. The points are situated well on the corresponding curves within the frame of possible errors. From the kinetic curves the constants of the reaction velocity and from the temperature dependence of the constant K of the reaction velocity the activation energy of the interaction between ozone and methyl hydroperoxide were then determined. In the diagram for the dependence of the magnitude lg K on 1/T the experimental points

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The Interaction Between Ozone and Methyl Hydroperoxide.

20-2-35/58

fit well on a straight line. From the tangent of the angle of inclination of this curve the value E = 7000 kal/mol. was obtained for the activation energy. From the series of kinetic curves the following can be seen: if about 15 minutes are nedessary for the decrease of the concentration of the peroxide by 50 % at 25 $^{\circ}$ this time reduces to 2,5 minutes at 64 $^{\circ}$. With a reaction period of 25 minutes practically all the peroxide has decomposed under the influence of ozone. Besides these experiments a special investigation for the determination of the main products of reaction of the interaction between osone and methyl hydroperoxide was made. The analysis of these products showed that peroxide under the influence of ozone transforms mainly into methyl alcohol. In the reaction products about 80% of methylated alcohol and about 6 % of formaldehyde were found. The primary products of the exidation of the hydrocarbons in the presence of slowly decomposing ozone are the hydroperoxides of the corresponding hydrocarbons. The authors, however, could not determine them as, under the influence of not-decomposed ozone, they transformed completely into alcohols. There are 3 figures, 1 table, and 5 references, 2 of which are Slavic.

Card 2/3

5(4) AUTHORS:

Kleymenov, N. A., Nalbandyan, A. B.

307/20-122-1-28/44

TITLE:

Concerning the Problem of the Rôle of Ozone in the Initiation of the Reactions of Oxidation of Saturated Gaseous Rydrocarbons (K voprosu o roli ozona v initsiirovanii reaktsiy okisleniya nasyshchennykh gazoobraznykh uglevodorodov)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 1, pp 103-105 (USSR)

ABSTRACT:

This paper gives some new data concerning the oxidation of propane and hydrogen which according to the authors' opinion confirm the mechanism of the action of ozone through the oxygen atoms. The experiments were carried out at atmospheric pressure. The products of the oxidation of propane-peroxides and aldehydes - were collected and then they were analyzed by the usual methods. The experimental data concerning the oxidation of hydrogen by ozonized oxygen are represented by a diagram. A noticeable decomposition of the ozone begins at a temperature of 85°, and also the oxidation of hydrogen begins at the same temperature. If the contact time increases from 21 to 40 sec, the temperature of the

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507/20-122-1-28/44

Concerning the Problem of the Rôle of Ozone in the Initiation of the Reactions of Oxidation of Saturated Gaseous Hydrocarbons

beginning of the decomposition of ozone (and algo of the oxidation of hydrogen) is diminished to 20 - 25°. Similar results are found for the oxidation of propane. Also in this case, the beginning of the oxidation agrees with the decomposition of ozone. This coincidence apparently is caused by the formation of active particles - by atoms or by excited molecules of oxygen which initiate the chain reaction. By further experiments, the nature of the initiation was investigated. According to these results, the excited oxygen molecules do not play an essential role in the oxidation reaction and, therefore, the initiation of the reaction must be connected with a reaction of atomar oxygen. In order to investigate the correctness of this conclusion, the authors carried out experiments concerning the initiation of the reaction by oxygen atoms which were produced immediately in a mixture of methane and oxygen. The photochemical initiation was used for this purpose. If the methane-oxygen mixture (75 % CH_4 and 25 % O_2) circulates under a pressure of 15 torr, ~ 9 % of the initial methane was exidized to hydrogen peroxide, and ~ 7 % - to formaldehyde. This experiment took

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Concerning the Problem of the Rôle of Ozone in the Initiation of the Reactions of Oxidation of Saturated Caseous Hydrocarbons

5 hours and the products of the reaction were frozen out at the temperature of the liquid nitrogen. It is very probable that formaldehyde is a secondary product of the photochemical decomposition of hydrogen peroxide. The following conclusion may be drawn from the data published in this paper and also in a previous paper: The oxidation of saturated gaseous hydrocarbons by ozonized oxygen is initiated by oxygen atoms produced by the thermal decomposition of ozone. There are 3 figures and 7 references, 1 of which is Soviet.

PRESENTED:

April 24, 1958, by V. W. Kondrat'yev, Academician

SUBMITTED:

April 17, 1958

Card 3/3

5(4) S07/20-122-3-27/57 AUTHORS: Kleymenov, N. A., Nalbandyan, A. B.

TITLE: The Investigation of the Reaction of the Low-Temperature

Oxidation of Methane Initiated by Atoms of Oxygen Produced by the Thermal Decomposition of Ozone (Issledovaniye reaktsii nizkotemperaturnogo okisleniya metana, initsiirovannoy atomami kisloroda, obrazuyushchimisya pri termicheskom raspade ozona)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 122, Hr 3, pp 420-423

(USSR)

ABSTRACT: According to the results of previous papers, the oxygen atoms produced by thermal decomposition of ozone initiate the oxi-

dation of methane by ozonized oxygen. Under such conditions, methyl hydroperoxide and formaldohyde are the most important products of the reaction. It was necessary to investigate the dependence of the yield of these products on various parameters (composition of the mixture, concentration of ozone, time of contact etc.) and to compare the found relations with

the results of the oxidation of nothane and its higher homologues sensitized by mercury. The oxidation by ozonized oxygen

Card 1/3 was carried out at atmospheric pressure. A diagram shows the

307/20-122-3-27/57

The Investigation of the Reaction of the Low-Temperature Oxidation of Methane Initiated by Atoms of Oxygen Produced by the Thermal Decomposition of Ozone

kinetic curves of the formation of methyl hydroperoxide, found at T = 150° for 3 compositions of the mixture. The experiments were carried out for a constant concentration of ozone in the initial mixture. In the investigated time intervals, the yield of peroxide grown according to a linear law. A second diagram shows the relation between the yield of peroxide and formaldehyde as a function of the ozone concentration for an equimolecular mixture of methane and oxygen (contact time 21 sec, temperatures 150 and 180). The quantities of the produced peroxide and formaldehyde are proportional to the initial ozone concentration in the mixture. This linear relation applies as long as the waste gases (otkhodyashchiye gazy) contain ozone. In order to investigate the influence of methane upon the yield of methyl hydroperoxide, a special series of experiments was carried out at T = 150". According to the results found, the quantity of the produced peroxide grows linearly with the concentration. The amount of the decomposed ozone remains constant. Similar results were found for T = 180°. If the concentration of oxygen during the experiments does not remain constant and if the oxygen contained

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The Investigation of the Reaction of the Low-Tenperature Oxidation of Methane Initiated by Atoms of Oxygen Produced by the Thermal Decomposition

in the mixture is replaced by methane, the above-mentioned linear relation becomes a non-linear one. Other diagrams show the increase of the quantity of the decomposed ozone with the concentration of methane and the dependence of the peroxide yield on oxygen. For oxygen concentrations from 30 to 90%, the quantity of the peroxide produced does not depend on the concentration of oxygen. According to a comparison of the results of this paper with the results of the photochemical oxidation of methane, ethane, and propane, the mechanism of oxidation is equal for both of these cases. There are 4 figures and 7 references, 6 of which are Soviet.

PRESENTED:

May 23, 1958, by V. N. Kondrat'yev, Academician

SUBMITTED:

May 21, 1958

Card 3/3

KIEYMENOV, N. A., Candidate Chem Soi (diss) -- "The kinetics and mechanism of low-temperature oxidation of methane". Moscow, 1959. 11 pp (Acad Soi USSR, Inst of Chem Phys), 175 copies (KL, No 24, 1959, 128)